

NOTES

NEW COMBINATIONS IN *CHUSQUEA* (POACEAE: BAMBUSOIDEAE)

The genus *Swallenochloa* McClure was segregated from *Chusquea* Kunth solely on the basis of differences in certain vegetative features (McClure, 1973). To my knowledge, McClure never collected *Swallenochloa*, and only limited, incomplete herbarium material of this group of species was available to him. Soderstrom & C. Calderón (1978) applied the terms extravaginal and intravaginal respectively to the branching patterns in *Chusquea* and *Swallenochloa*, and discussed other vegetative differences in addition to those listed by McClure. As the result of extensive field and herbarium studies, I determined that the species of *Swallenochloa* constitute a coherent, natural group that falls within the generic limits of *Chusquea*. Details of the reduction of *Swallenochloa* to a section of *Chusquea* will be presented in a later publication (Clark, in prep.). For the present, this transfer necessitates new combinations for three species.

Chusquea angustifolia (Soderstrom & C. Calderón) L. G. Clark, comb. nov. *Swallenochloa angustifolia* Soderstrom & C. Calderón, Brittonia 30: 303. 1978. TYPE: Venezuela. Tachira: subparamo y bosque enano, faldas inmediatamente debajo del Paramo de Tama, cerca de la frontera Colombo-Venezolana, Steyermark, Dunsterville & Dunsterville 98615 (holotype, US; isotype, VEN).

Chusquea longiligulata (Soderstrom & C. Calderón) L. G. Clark, comb. nov. *Swallenochloa longiligulata* Soderstrom & C. Calderón, Brittonia 30: 305. 1978. TYPE: Costa Rica. San José: along the Carretera Interamericana, ca. 5 km SE of Empalme, near Tres de Junio, Pohl & Selva 12842 (holotype, US; isotypes, F, ISC, MO).

Chusquea vulcanalis (Soderstrom & C. Calderón) L. G. Clark, comb. nov. *Swallenochloa vulcanalis* Soderstrom & C. Calderón, Brittonia 30: 309. 1978. TYPE: Costa Rica. Cartago: abrupte dominante La Playita, Volcán Irazu, Pittier 14126 (holotype, US; isotypes, ISC, US).

LITERATURE CITED

- McCLURE, F. A. 1973. Genera of bamboos native to the New World (Gramineae: Bambusoideae). Smithsonian Contr. Bot. 9: ix-xii, 1-148. [Edited by T. R. Soderstrom.]
SODERSTROM, T. R. & C. E. CALDERÓN. 1978. *Chusquea* and *Swallenochloa* (Poaceae: Bambusoideae): generic relationships and new species. Brittonia 30: 297-312.

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